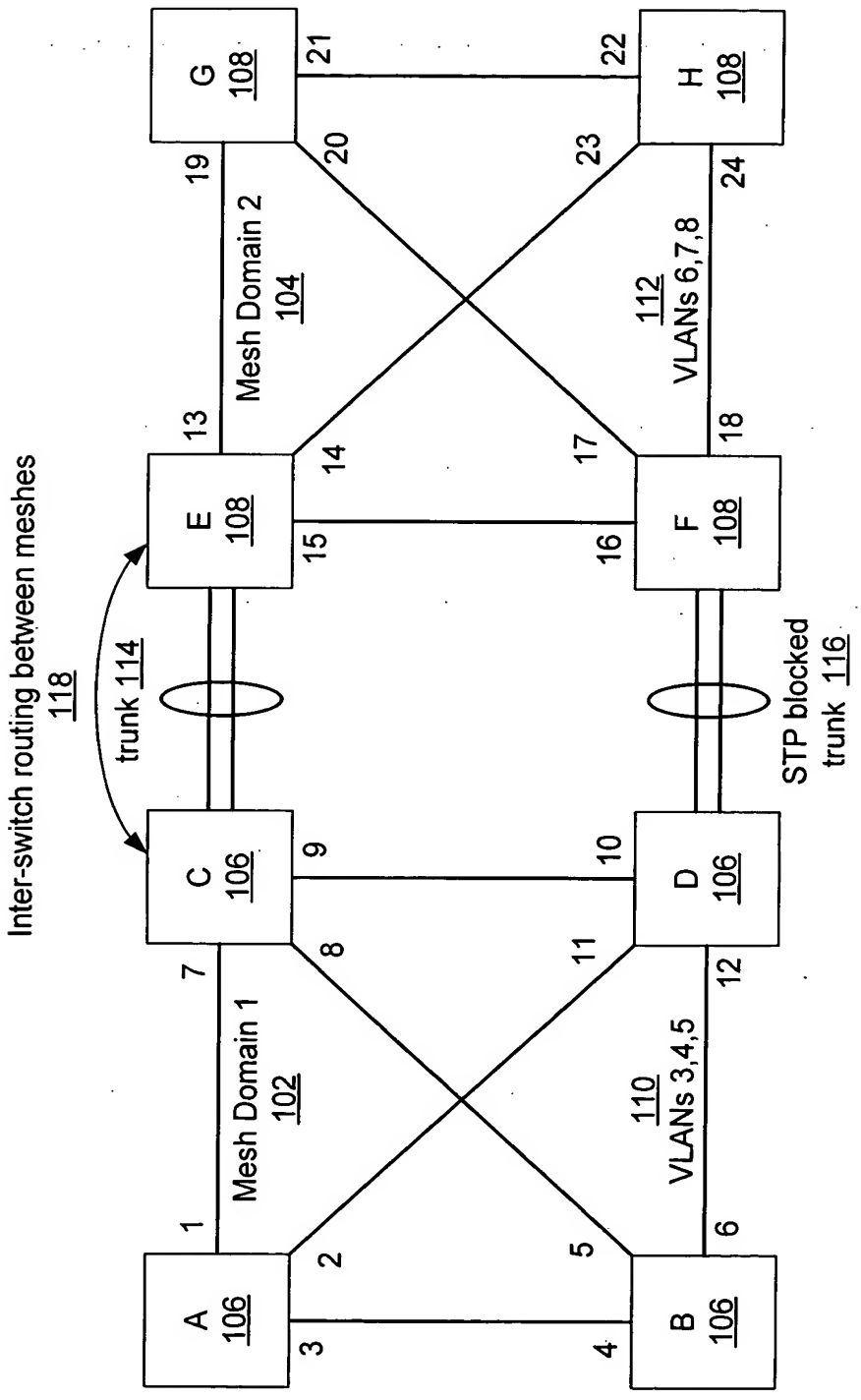

A,B,C,D,E,F,G,H are mesh switches

FIG. 1
(Background Art)

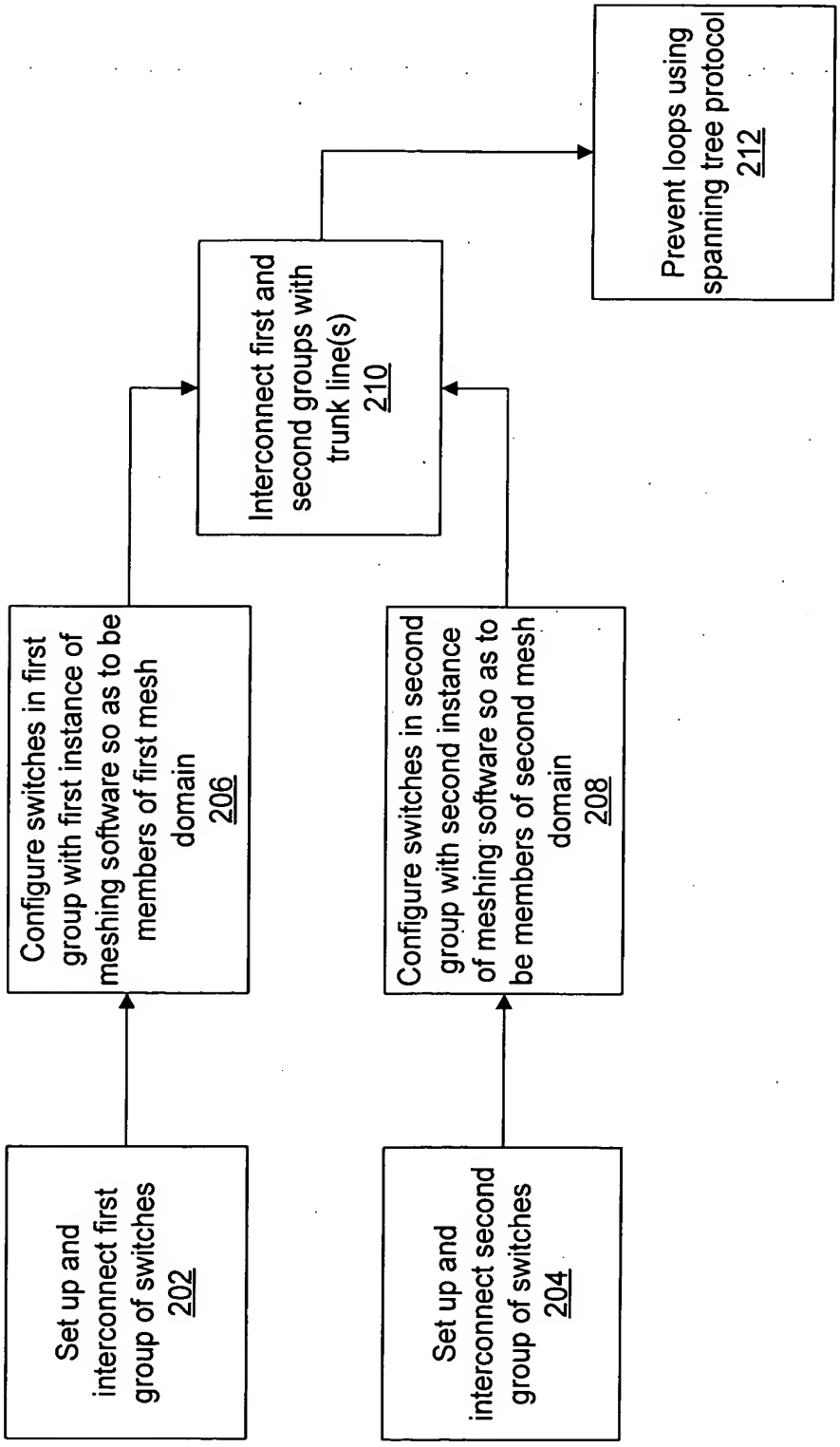

FIG. 2
(Background Art)

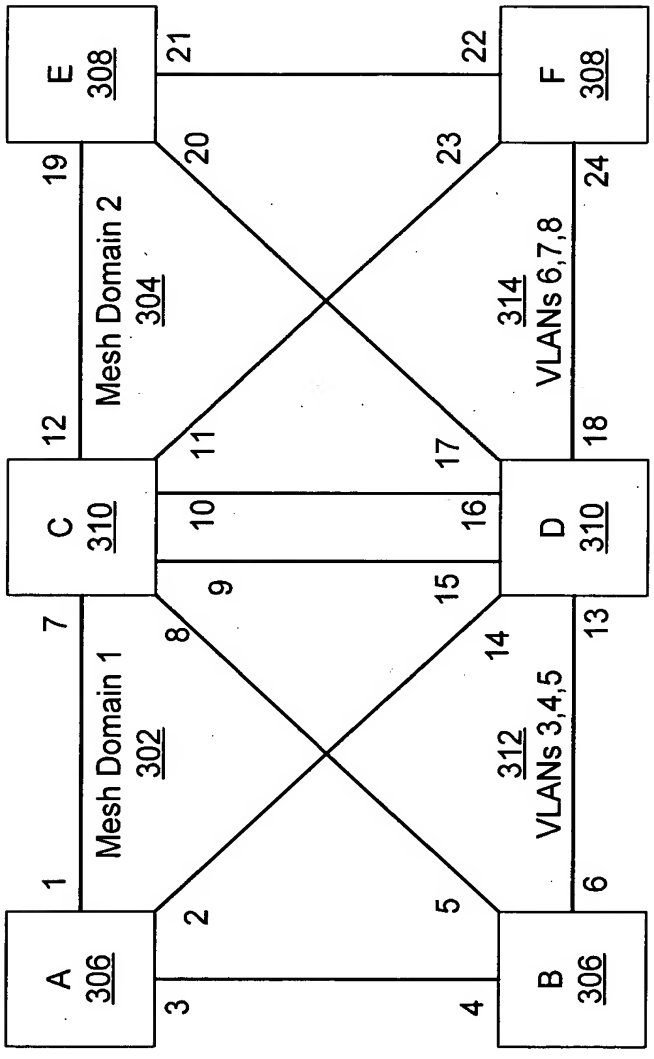
A
306
B
306
C
310
D
310
E
308
F
308
Mesh Domain 1
302
Mesh Domain 2
304
312
VLANs 3,4,5
314
VLANs 6,7,8
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
300
A,B,C,D,E,F are
mesh switches

FIG. 3

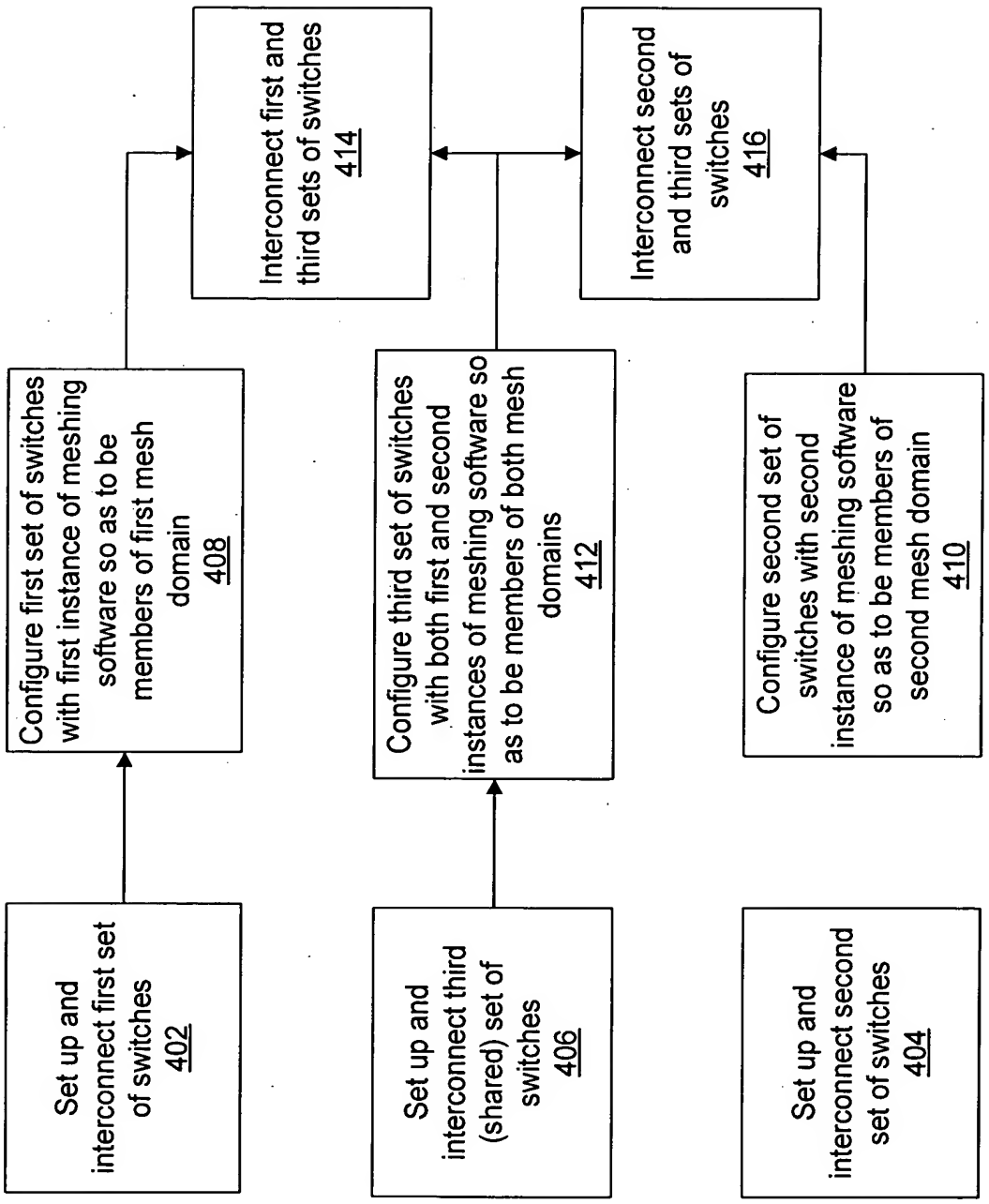
Set up and interconnect first set of switches 402
Set up and interconnect third (shared) set of switches 406
Set up and interconnect second set of switches 404
Configure first set of switches with first instance of meshing software so as to be members of first mesh domain 408
Configure third set of switches with both first and second instances of meshing software so as to be members of both mesh domains 412
Configure second set of switches with second instance of meshing software so as to be members of second mesh domain 410
Interconnect first and third sets of switches 414
Interconnect second and third sets of switches 416

FIG. 4

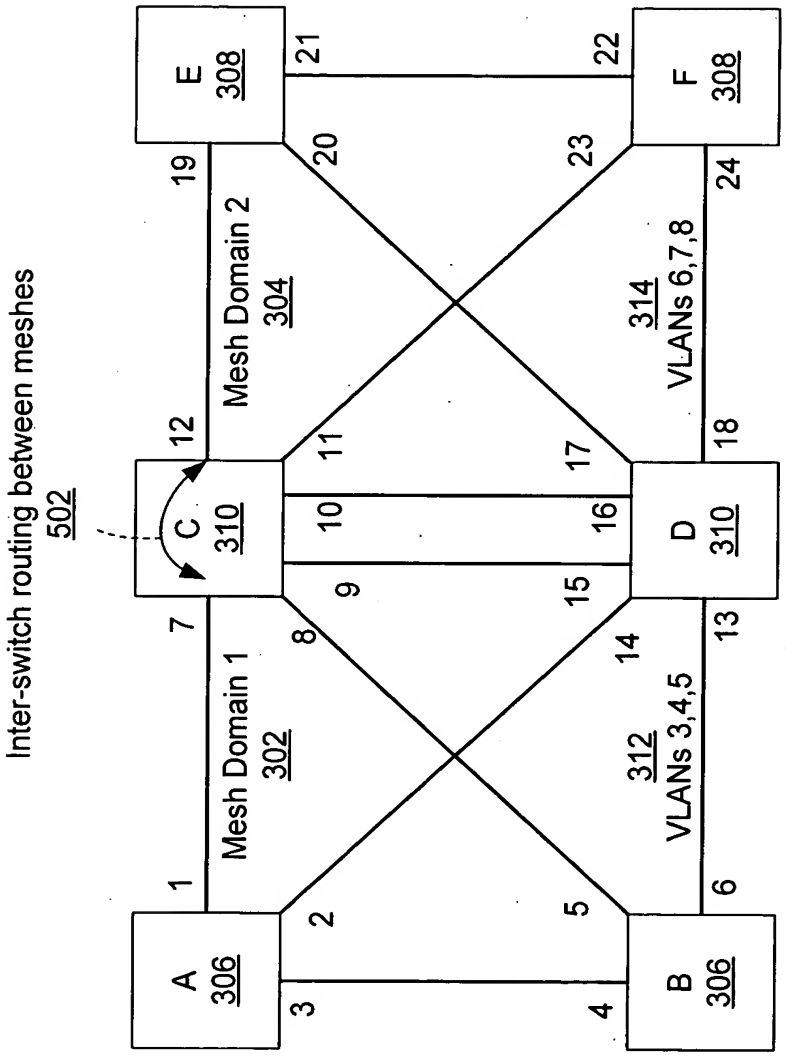
Inter-switch routing between meshes
502
A
306
B
306
C
310
D
310
E
308
F
308
Mesh Domain 1
302
Mesh Domain 2
304
312
VLANs 3,4,5
314
VLANs 6,7,8
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
A,B,C,D,E,F are
mesh switches
300

FIG. 5

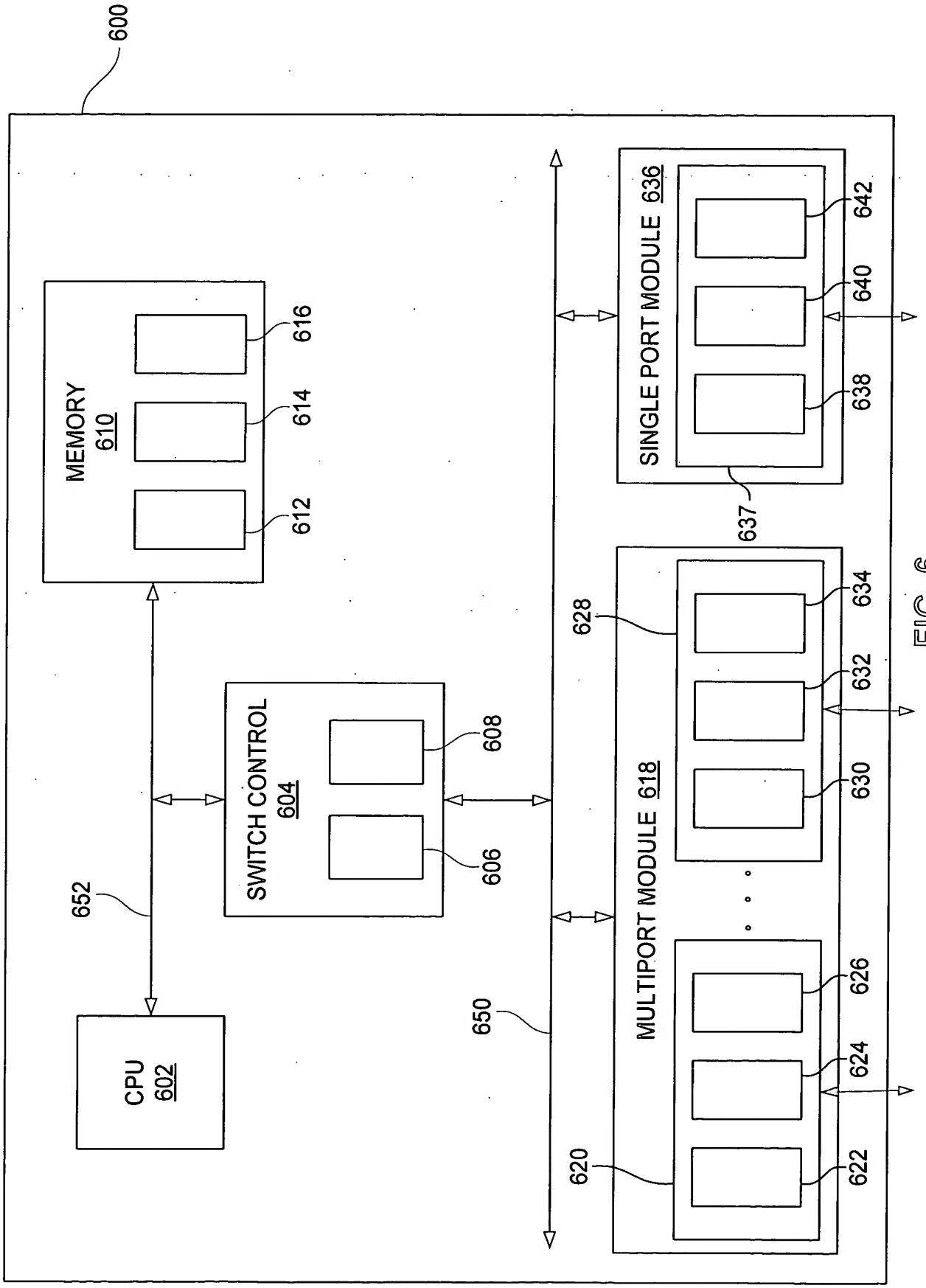
600
MEMORY
610
616
614
612
SWITCH CONTROL
604
608
606
CPU
602
652
650
SINGLE PORT MODULE 636
642
640
638
637
MULTIPORT MODULE 618
628
634
632
630
626
624
620
622

FIG. 6

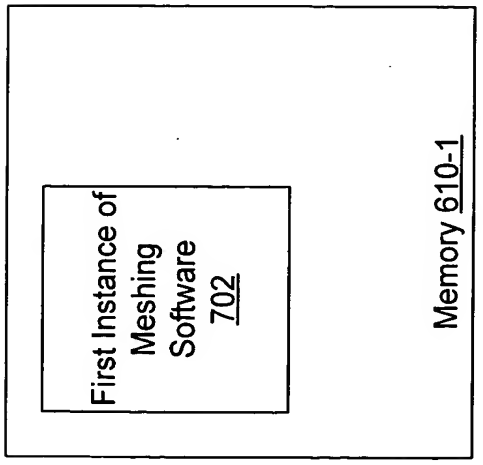

FIG. 7A

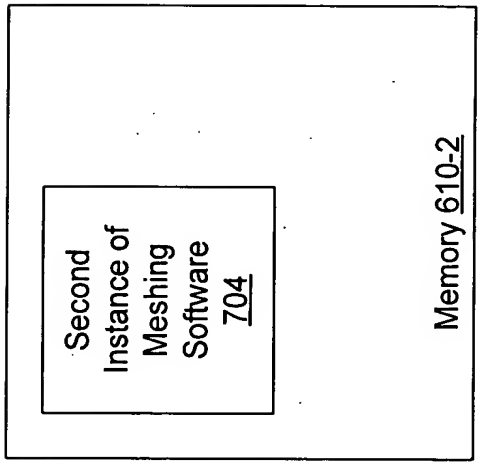

FIG. 7B

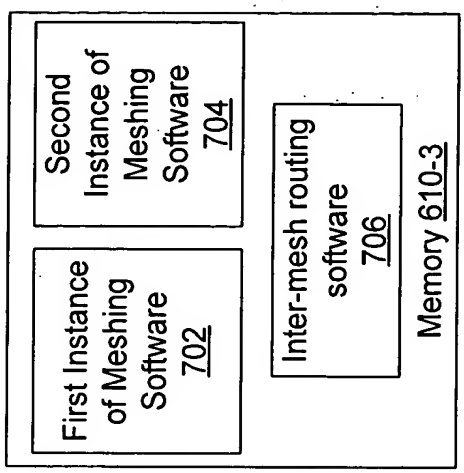

FIG. 7C